



EESTI LENNUAKADEEMIA

Õppematerjalide ajakohasuse protokoll 2025/2026 õppeaasta

Õppematerjal on vastavuses Eesti Lennuakadeemia õppeprogrammile (MTOE 4.2.0, 4.2.1, 4.2.2, 4.2.3), Euroopa Komisjoni regulatsiooni Osa-66 liitega I.

Mooduli nr: Moodul 7
Õppematerjali nimetus: INTERNATIONAL CENTRE FOR AEROSPACE TRAINING (ICAT) MODULE 7 - MAINTENANCE PRACTICES
Lisainfo: • International Centre for Aerospace Training (ICAT) paberkandjal ja e-raamatuna (A, B1, B2 kategooria) • TÄIENDAV ÕPPEMATERJAL MOODLE KESKKONNAS
Õppematerjali pealkiri: INTERNATIONAL CENTRE FOR AEROSPACE TRAINING (ICAT) MODULE 7 - MAINTENANCE PRACTICES
Revisjoni number: 1
Kasutusperiood: september 2025 – september 2026

Heaks kiidetud veebikeskkond distantsõppe läbiviimiseks	Zoom (https://zoom.us/)
	Google Classroom (classroom.google.com)

Protokolli koostamise kuupäev: 15.09.2025

MTO koolitusjuht: Madis Parv
(allkirjastatud digitaalselt)

ÕPPEMATERJALI VASTAVUSHINDAMISE KONTROLL-LEHT

Mooduli nr. ja nimetus: Module 7 Maintenance Practices	Tase			Õppematerjali vastavus Osa-66 Lisa III mooduli programmile
	A	B1	B2	
7.1 Safety Precautions-Aircraft and Workshop <i>Aspects of safe working practices including precautions to be taken when working with electricity, gases (especially oxygen), oils, and chemicals.</i> <i>Fuel tank safety and fuel tank entry procedures and precautions. Awareness and precautions regarding aircraft equipped with ballistic recovery systems. Also, instructions for the remedial action to be taken in the event of a fire or another accident with one or more of these hazards, including information on fire-extinguishing agents.</i>	3	3	3	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta MÄRKUS: Alateema <i>Fuel tank safety and fuel tank entry procedures and precautions. Awareness and precautions regarding aircraft equipped with ballistic recovery systems</i> õppematerjal Moodle keskkonnas
7.2 Workshop Practices <i>Care of tools, control of tools, use of workshop materials;</i> <i>Dimensions, allowances and tolerances, workmanship standards; Calibration of tools and equipment, calibration standards.</i>	3	3	3	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.3 Tools <i>Common hand-tool types;</i> <i>Common power-tool types;</i> <i>Operation and use of precision-measuring tools;</i> <i>Lubrication equipment and methods;</i> <i>Operation, function, and use of electrical general test equipment.</i>	3	3	3	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.4 (Reserved)				N/A
7.5 Engineering Drawings, Diagrams and Standards <i>Drawing types and diagrams, their symbols, dimensions, tolerances and projections; Identification of title block information;</i> <i>Microfilm, microfiche, and computerised presentations;</i> <i>Specification 100 of the Air Transport Association (ATA) of America;</i> <i>Aeronautical and other applicable standards including ISO, AN, MS, NAS and MIL;</i> <i>Wiring diagrams and schematic diagrams.</i>	1	2	2	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.6 Fits and Clearances <i>Drill sizes for bolt holes, classes of fits;</i> <i>Common system for fits and clearances;</i> <i>Schedule of fits and clearances for aircraft and engines;</i> <i>Limits for bow, twist and wear;</i> <i>Standard methods for checking shafts, bearings, and other parts.</i>	1	2	1	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.7 Electrical Wiring Interconnection System (EWIS)	1	3	3	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta

<i>Continuity, insulation and bonding techniques and testing;</i> <i>Use of crimp tools: hand and hydraulic operated;</i> <i>Testing of crimp joints;</i> <i>Connector pin removal and insertion;</i> <i>Coaxial cables: testing and installation precautions;</i> <i>Identification of wire types, their inspection criteria and damage tolerance;</i> <i>Wiring protection techniques: cable looming and loom support, cable clamps, protective sleeving techniques including heat shrink wrapping, shielding;</i> <i>High-Intensity Radiated Fields (HIRF) and protection principles;</i> <i>Soldering of electrical wires, EWIS installations, inspection, repair, maintenance, and cleanliness standards.</i>				MÄRKUS: Täiendav õppematerjal Moodle keskkonnas
7.8 Riveting <i>Riveted joints, rivet spacing and pitch;</i> <i>Tools used for riveting and dimpling;</i> <i>Inspection of riveted joints.</i>	1	2	-	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.9 Pipes and Hoses <i>Bending and belling/flaring aircraft pipes;</i> <i>Inspection and testing of aircraft pipes and hoses;</i> <i>Installation and clamping of pipes.</i>	1	2	-	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.10 Springs <i>Inspection and testing of springs.</i>	1	2	-	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.11 Bearings <i>Testing, cleaning and inspection of bearings;</i> <i>Lubrication requirements of bearings;</i> <i>Defects in bearings and their causes.</i>	1	2	-	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.12 Transmissions <i>Inspection of gears, backlash;</i> <i>Inspection of belts and pulleys, chains and sprockets;</i> <i>Inspection of screw jacks, lever devices, push-pull rod systems.</i>	1	2	-	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.13 Control Cables <i>Swaging of end fittings;</i> <i>Inspection and testing of control cables;</i> <i>Bowden cables; aircraft flexible control systems.</i>	1	2	-	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.14 Material handling 7.14.1 Sheet Metal <i>Marking out and calculation of bend allowance;</i> <i>Sheet metal working, including bending and forming;</i> <i>Inspection of sheet metal work.</i>	-	2	-	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.14.2 Composite and non-metallic <i>Bonding practices;</i> <i>Environmental conditions;</i> <i>Inspection methods.</i>	-	2	-	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.14.3 Additive manufacturing	1	1	1	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta

<i>Common additive manufacturing techniques and their influence on the mechanical properties of the finished part; Inspection of additive manufactured parts and common production failures.</i>				MÄRKUS: Alateema 7.14.3 Additive manufacturing õppematerjal Moodle keskkonnas
7.15 (Reserved).				N/A
7.16 Aircraft Weight and Balance (a) Calculation of centre-of-gravity / balance limits: use of relevant documents. (b) Preparation of aircraft for weighing; Aircraft weighing.	- -	2 2	2 -	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.17 Aircraft Handling and Storage Aircraft taxiing/towing and associated safety precautions; Aircraft jacking, chocking, securing and associated safety precautions; Aircraft storage methods; Refuelling/defuelling procedures; De-icing/anti-icing procedures; Electrical, hydraulic, and pneumatic ground supplies; Effects of environmental conditions on aircraft handling and operation.	2	2	2	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.18 Disassembly, Inspection, Repair and Assembly Techniques (a) Types of defects and visual inspection techniques; Corrosion removal, assessment and re-protection; (b) General repair methods, Structural Repair Manual; Ageing, fatigue and corrosion control programmes; (c) Non-destructive inspection techniques including penetrant, radiographic, eddy current, magnetic particle, ultrasonic and borescope inspections; <i>including practical training in colour contrast penetrant inspection;</i> (d) Disassembly and re-assembly techniques; (e) Trouble shooting techniques.	2 - - 2 -	3 2 2 2	3 - 1 2 2	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta MÄRKUS: Täiendav õppematerjal Moodle keskkonnas
7.19 Abnormal Events (a) Inspections following lightning strikes and HIRF penetration; (b) Inspections following abnormal events such as heavy landings and flight through turbulence.	2 2	2 2	2 -	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta
7.20 Maintenance Procedures Maintenance planning; Modification procedures; Stores procedures; Certification/release procedures; Interface with aircraft operation;	1	2	2	☒ Kontrollitud, vastab ☐ Kontrollitud, ei vasta

